

IN THE CLAIMS:

1. (CURRENTLY AMENDED) A method of maintaining a temperature in a refrigerated compartment comprising the steps of:
 - a) —cooling the refrigerated compartment;
 - b) —detecting the temperature in the refrigerated compartment;
 - providing a signal to stop the step of coolinga) for a predetermined amount of time;
 - stopping the step of cooling when the temperature in the refrigerated compartment is at a predetermined temperature; and
 - e) —resuming the step of cooling the refrigerated compartment after the predetermined amount of time.
2. (ORIGINAL) The method as recited in claim 1 further comprising the steps of:
 - compressing a refrigerant to a high pressure;
 - cooling the refrigerant;
 - expanding the refrigerant to a low pressure; and
 - heating the refrigerant, and the step of heating the refrigerant includes accepting heat from a fluid medium to cool the refrigerated compartment.
3. (ORIGINAL) The method as recited in claim 2 wherein the step of heating comprises employing a first evaporator and a second evaporator.
4. (ORIGINAL) The method as recited in claim 3 further including the step of operating the first evaporator and the second evaporator independently.
5. (ORIGINAL) The method as recited in claim 1 wherein the step of providing the signal comprises pressing a button.
6. (ORIGINAL) The method as recited in claim 1 wherein the predetermined amount of time is between 5 minutes and 120 minutes.

7. (ORIGINAL) The method as recited in claim 6 wherein the predetermined amount of time is between 15 minutes and 30 minutes.

8 (ORIGINAL) The method as recited in claim 1 wherein the predetermined amount of time is between 8 hours and 48 hours.

9. (ORIGINAL) The method as recited in claim 1 wherein the refrigerated compartment is one of a display case and a service cabinet.

10. (ORIGINAL) The method as recited in claim 1 wherein the refrigerated compartment is employed with medical and scientific applications.

11. (ORIGINAL) The method as recited in claim 1 further comprising the step of providing a second signal to begin cooling the refrigerated compartment before the predetermined time.

12. (ORIGINAL) The method as recited in claim 1 wherein the method is monitored remotely.

13-14. (CANCELLED)

15. (CURRENTLY AMENDED) A system for maintaining a temperature in a refrigerated compartment comprising:

a controller to regulate the temperature in the refrigerated compartment;

a temperature sensor to detect the temperature in the refrigerated compartment; and

an evaporator to cool the refrigerated compartment, ~~and wherein~~ the evaporator stops cooling the refrigerated compartment for a predetermined amount of time in response to a signal from the controller when the sensor detects that the temperature in the refrigerated container is at a predetermined temperature.

16. (ORIGINAL) The system as recited in claim 15 further comprising:
a compressor to a refrigerant to a high pressure;
a condenser for cooling the refrigerant; and
an expansion device to expand the refrigerant to a low pressure.
17. (ORIGINAL) The system as recited in claim 15 wherein the evaporator heats a refrigerant by accepting heat from a fluid medium, and the fluid medium cools the refrigerated compartment.
18. (ORIGINAL) The system as recited in claim 15 further comprising a button to generate the signal.
19. (ORIGINAL) The system as recited in claim 15 further comprising more than one button to generate the signal.
20. (ORIGINAL) The system as recited in claim 15 wherein the predetermined amount of time is between 15 minutes and 30 minutes.
21. (CANCELLED)
22. (CURRENTLY AMENDED) The system as recited in claim 15 further including an second evaporator.
23. (NEW) The method as recited in claim 1 wherein the step of stopping the step of cooling occurs when the temperature in the refrigerated compartment is at the predetermined temperature for a programmed amount of time.
24. (NEW) The system as recited in claim 15 wherein the evaporator stops cooling the refrigerated container when the temperature in the refrigerated compartment is at the predetermined temperature for a programmed amount of time.

25. (NEW) The system as recited in claim 16 further including a solenoid valve located between the condenser and the expansion device, wherein the signal from the controller closes the solenoid valve.

26. (NEW) The system as recited in claim 15 further including an evaporator fan that blows air over the evaporator, wherein the signal from the controller inactivates the evaporator fan.